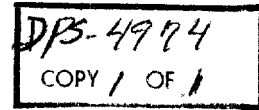


SECRET



7 October 1958

Doc. No. 151X5.1259
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Page 1 of 1

Dear Dick:

We are forwarding herewith Progress Letter Number 22 covering work performed in connection with System No. 4 during the period extending from 1 August 1958 through 15 September 1958.

Sincerely,


Milt

MEM
bqm

Enclosures:
CMCC Doc. 163X5.90
Copies 1 through 8

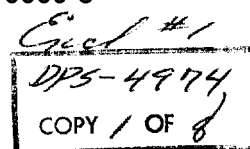
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NEXT REVIEW DATE: 2011
AUTH. HR 70-2
DATE: 04/27/11 REVIEWER: 010056

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Progress Letter No. 22

Contract No. A-101

System 4

1 August 1958 through 15 September 1958

CMCC Document No. 163X5.90

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29 September 1958

(This document contains a total of 3 sheets,
including this title sheet.)

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SECRET1. General

During the period covered by this progress letter, the following work was performed:

- (1) Laboratory system tests were conducted on Serial 105 and environmental system tests were scheduled.
- (2) All subassembly testing on units for Serial 106 was completed and unit environmental tests were considerably advanced.
- (3) Delivery on the 10 unit for Serial 101A was withheld until a component defect was corrected.
- (4) Construction and subassembly tests on Serial 107 were advanced.
- (5) Parts procurement and some construction was initiated on the rework of Serial 102.

2. Serial 105

a. Although laboratory system testing had been initiated at the first of this reporting period, system environmental tests did not get under way until 15 September, the end of this reporting period. The delays were due to the unavailability of a suitable test facility prior to that date.

b. At the conclusion of system environmental tests which were initiated on 15 September 1958, a report summarizing the problems of Serial 105 will be made, with recommendations to the contracting officer regarding the continuance of such tests for remaining systems.

3. Serial 101A

In the last report it was indicated that all reworked equipments; namely, and the 8-9 and 10 units, were completed and delivered. It was discovered just prior to delivery that the

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cathode-ray tube in the 10 unit was defective. The defect observed was an insufficient thickness of phosphor on the screen. Under prolonged exposure conditions, for example several minutes, a frame would become fogged due to light emitted by the heater within the tube. The customer was informed of the defect and concurred in the plan to hold delivery until suitable tubes could be obtained from the vendor. During this reporting period, completely satisfactory correction of the tube defect has not been obtained; however, by the application of suitable light filters, the fogging problem was substantially eliminated without serious deterioration of picture quality. This defect had not been previously noted in other tubes from the same vendor, but was present in all others received in a recent shipment as well as those the vendor offered as replacements. Corrective measures as described above will be applied to the remaining systems where necessary.

4. Serial 106

Environmental tests have been completed on more than half of the units of Serial 106, and limited system testing has started.

5. Planning

- (1) During the forthcoming period it is expected that system environmental tests on Serial 105 will be completed and the flight testing program will be under way.
- (2) All unit environmental, and laboratory system tests will be completed on Serial 106 and system environmental tests will be initiated if required.
- (3) Construction of Serial 107 will be completed and subassembly tests will be under way.
- (4) The re-work on Serial 102 will be advanced.

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